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Code N	No: R32054	<b>R10</b>	Set No: 1		
	III B.Tech. II Semester Regular and Supplementary Examinations, May/June -2014 UNIX PROGRAMMING				
(Common to CSE and IT) Time: 3 Hours Max Marks: 75					
Time.		IVE Questions			
	All Questions ca	-			
	***				
1.	Explain about the following UNIX utili	ties: mv, rmdir, rlogin and cmp	. [15]		
2	a) Discuss about the meta characters in	UNIX shell	[7]		
2.	b) Write a shell script to display first n		[8]		
			[~]		
3.	a) Brief on UNIX file structure.		[7]		
	b) Explain about open, read, write and c	close file operations in UNIX.	[8]		
			F 4 <b>F</b> 7		
4.	Brief on at least 5 UNIX process manage	gement system calls.	[15]		
5	a) Discuss about interrupted system call		[7]		
5.	b) Explain in detail about abort and slee		[8]		
b) Explain in deal about abort and sleep functions in dealit.					
6.	a) Explain the advantages of FIFOs ove	r pipes.	[5]		
	b) Write a C program to demonstrate	the working of bidirectional			
	with pipes.		[10]		
7	E		6:1. 1. 1		
7.	Explain with a program, the concept semaphores.	of requesting and releasing a	[15]		
	semaphores.		[13]		
8.	a) Briefly explain the operation of lister	and accept system calls.	[6]		
	b) List and explain the system ca				
	communication.		[9]		
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Code I	No: R32054	<b>R10</b>	Set No:	: 2
	III B.Tech. II Semester Regular and Sup UNIX PRO	oplementary Examinations, May/Jun GRAMMING	ne -2014	
		to CSE and IT)		
Time:	3 Hours		Max Marks:	75
	•	FIVE Questions		
	-	carry equal marks ****		
1.	<ul><li>a) Brief the features of UNIX.</li><li>b) Explain the UNIX backup utilities.</li></ul>		-	7] 8]
	b) Explain the ONIX backup utilities.		L	0]
2.	<ul><li>a) Explain about different conditional</li><li>b) Write a shell script to find the sum</li></ul>	*	-	[7] [8]
3.	Explain about the following system ca	alls: lseek, stat, symlink and clos	edir. [15]	
4.	<ul><li>a) What is a zombie process? Why the</li><li>b) Explain in detail about exec system</li><li>supplied to the system call.</li></ul>	-	es of paramet	[7] ters [8]
5.	<ul><li>a) Discuss in detail about unreliable si</li><li>b) Explain about kill and raise function</li></ul>	-		[7] [8]
6.	Explain in detail about streams, messa	ages and namespaces with respec	ct to UNIX II [15]	PC.
7.	<ul><li>a) List and explain different system ca</li><li>b) Explain the kernel data structure for</li></ul>	<b>U</b>	-	[8] [7]
8.	<ul> <li>a) What is a socket? Present a detailed</li> <li>b) Detail on socket and socketpair sys</li> </ul>	e		[7] [8]

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Code N	No: R32054	Set No: 3
	III B.Tech. II Semester Regular and Supplementary Examinations, May/Jun	e -2014
	UNIX PROGRAMMING	
Time	(Common to CSE and IT) 3 Hours	Max Marks: 75
11110.	Answer any FIVE Questions	
	All Questions carry equal marks	
	****	
1.	Explain about the following UNIX utilities: In, finger, grep and tee.	[15]
2.	a) Explain about pipes and input redirection in UNIX shells.	[7]
	b) Write a shell script to find whether a given integer is prime or not.	[8]
2		
3.	<ul><li>a) With an example explain the difference between fgetc and getc syste</li><li>b) Discuss about various directory handling system calls.</li></ul>	em calls. [7] [8]
		[0]
4.	a) Explain the operation of fork and vfork system calls in detail.	[8]
	b) Write in brief about UNIX process structure.	[7]
5.	a) Distinguish between reliable and unreliable signals	[7]
	b) Explain in about alarm and pause functions.	[8]
6.	Briefly discuss about different forms of Inter Process Communi	
	available in modern UNIX systems.	[15]
7.	a) Explain the procedure to create and open a UNIX IPC channel.	[8]
	b) Distinguish between file locking and record locking.	[7]
8.	With sample and spinnets explain the TCP connection manage	mont in UNIV
0.	With sample code snippets explain the TCP connection manage systems.	[15]
		[10]
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Code N	No: R32054	<b>R10</b>	Set No: 4
		plementary Examinations, May/Jun GRAMMING o CSE and IT)	e -2014
Гime:	<b>3 Hours</b> Answer any F All Questions c	,	Max Marks: 75
1.	Explain about the following UNIX util	lities: find, ps, rmdir and fgrep.	[15]
2.	<ul><li>a) Explain about built-in variables of U</li><li>b) Write a shell program to find the ma</li></ul>		[7] s. [8]
3.	<ul><li>a) Explain the following terms with redevice.</li><li>b) Write in brief about any 4 standard 1</li></ul>		e, directory and [7] [8]
4.	<ul><li>a) What is a daemon process? What UNIX system?</li><li>b) With an example explain the different system?</li></ul>		[7]
5.	<ul><li>a) Write a detailed note on SIGCHLD</li><li>b) With a program explain how to hand</li></ul>		[7] system. [8]
6.	<ul><li>a) Write a C program to demonstrate with FIFOs.</li><li>b) Brief the method of UNIX inter pro- processes are on different machines.</li></ul>	F.	[10]
7.	<ul><li>a) List and explain the system calls ass</li><li>b) Differentiate between Advisory lock</li></ul>		[8] [7]
0	Explain with detailed description the send and recv.	following system calls: connec	t, listen accept, [15]

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